#### 03060106-050

(Savannah River)

## **General Description**

Watershed 03060106-050 is located in Edgefield and Aiken Counties and consists primarily of the *Savannah River* and its tributaries from the Stevens Creek Dam to Upper Three Runs. The watershed occupies 40,964 acres of the Piedmont, Sand Hills, and Upper Coastal Plain regions of South Carolina. The predominant soil types consist of an association of the Fuquay-Troup-Cataula-Cecil series. The erodibility of the soil (K) averages 0.20, and the slope of the terrain averages 7%, with a range of 0-15%. Land use/land cover in the watershed includes: 42.9% forested land, 20.7% forested wetland, 15.5% agricultural land, 11.1% urban land, 5.2% barren land, 4.0% water, and 0.6% nonforested wetland.

This section of the Savannah River accepts drainage from its upper reaches, together with Reed Creek\*, Fox Creek (Pole Branch), Rock Creek\*, the Horse Creek watershed, the Dead River (oxbow), and Butler Creek\*. An asterisk connotes a stream entering from the Georgia side of the river. Further downstream, the river accepts drainage from Spirit Creek\*, Pine Creek (Hardens Dead River, Horseshoe Lake, Clarkes Lake), the Hollow Creek watershed, Berryhill Gut (Coleman Lake), High Bank Creek\*, McBean Creek\*, Boggy Gut Creek\*, Bent Lake, and Newberry Creek\*. There are a total of 121.8 stream miles and 184.8 acres of lake waters within the South Carolina portion of the watershed, all classified FW. Redcliffe State Park resides in this watershed, as does a portion of the federally owned Savannah River Plant.

### **Surface Water Quality**

Station #	<u>Type</u>	Class	<u>Description</u>
SV-251	P	FW	SAVANNAH RIVER AT US 1, 1.5 MI SW N.AUGUSTA
SV-252	P	FW	SAVANNAH RIVER AT SC 28, 1.6 MI NNW OF BEECH ISLAND
SV-323	P	FW	SAVANNAH RIVER AT LOCK AND DAM

**Savannah River** – There are three stations along this section of the Savannah River. Recreational uses are fully supported **at all sites**, and a significant decreasing trend in fecal coliform bacteria concentration suggests improving conditions for this parameter **at all sites**. At the upstream site (SV-251), aquatic life uses are fully supported; however, there is a significant increasing trend in total phosphorus concentration. There is also a significant decreasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand and total nitrogen concentration suggest improving conditions for these parameters.

Aquatic life uses are also fully supported further downstream (SV-252). There is a significant decreasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand, turbidity, and total nitrogen concentration suggest improving conditions for these parameters. At the furthest downstream site (SV-323), aquatic life uses are fully supported. There is a significant decreasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand and total nitrogen concentration suggest improving conditions for these parameters. In sediments, a high concentration of mercury was detected in the 1996 sample and dibutyl phthalate was detected in the 1999 sample.

A fish consumption advisory has been issued by the Department for mercury and includes the Savannah River within this watershed (see advisory p.107).

# **NPDES Program**

Active NPDES Facilities

RECEIVING STREAM
PDES#
FACILITY NAME
TYPE
PERMITTED FLOW @ PIPE (MGD)
COMMENT

SAVANNAH RIVER TRIBUTARY SCG645036

ECW&SA/WTP MINOR INDUSTRIAL

PIPE #: 001 FLOW: M/R

SAVANNAH RIVER SC0000582

KIMBERLY-CLARK CORP./BEECH ISLAND MAJOR INDUSTRIAL

PIPE #: 001 FLOW: 11.452

SAVANNAH RIVER SC0000574

SCE&G/URQUHART STEAM STATION MAJOR INDUSTRIAL

PIPE #: 001 FLOW: 190 PIPE #: 002, 003 FLOW: M/R

SAVANNAH RIVER SC0024457

AIKEN PSA/HORSE CREEK WWTP MAJOR INDUSTRIAL

PIPE #: 001 FLOW: 26.0

### **Nonpoint Source Management Program**

**Land Disposal Activities** 

**Landfill Facilities** 

LANDFILL NAME PERMIT #
FACILITY TYPE STATUS

MASONS TREE & TURF FARM IWP-182
INDUSTRIAL CLOSED

SCE&G URQUART 023320-1601 INDUSTRIAL ACTIVE

SCE&G URQUART IWP-009
INDUSTRIAL INACTIVE

KIMBERLY-CLARK CORP. SCD042971069 INDUSTRIAL ACTIVE

**Land Application Sites** 

LAND APPLICATION SYSTEM ND# FACILITY NAME TYPE

INFILTRATION POND ND0067113
BEECHWOOD SD DOMESTIC

#### Mining Activities

MINING COMPANY PERMIT #
MINE NAME MINERAL

THE MARTIN GROUP 1009-03
RAIFORD PIT SAND/CLAY

HANSON AGGREGATES SOUTHEAST 0801-03

BEECH ISLAND PLANT #1 SAND/GRAVEL

WERTS EQUIPMENT RENTAL, INC. 0845-03
BEECH ISLAND MINE SAND/CLAY

# **Water Quantity**

WATER USER	TOTAL PUMP. CAPACITY (MGD)
STREAM	RATED PUMP. CAPACITY (MGD)
ECWSA	10.0
SAVANNAH RIVER	7.0
CITY OF NORTH AUGUSTA	25.8
SAVANNAH RIVER	14.0

#### **Growth Potential**

There is a moderate potential for growth in this watershed, which contains portions of the Town of Jackson and the City of North Augusta. The City of North Augusta is currently experiencing a northward push towards I-20 and Augusta, Georgia. This growth is primarily residential and commercial; the trend is expected to continue. Projected growth includes the area surrounding the seven interchanges of I-20 in Aiken County, particularly in the intersection of I-20 and S.C. Hwy 19, and that of I-20 and U.S. Hwy 1. S.C. 19 is expected to be widened to four lanes in the near future.